We are a multidisciplinary research unit that develops and optimises new classes of biomaterials and the latest in synthetically produced plasma surfaces and nanoparticles for therapeutic use in vascular disease and more broadly in tissue repair.

Clinicians

A/Prof. Martin Ng, Royal Prince Alfred Hospital
Prof. Edward Fisher, New York University

Biologists

Prof. Peter Thorn, University of Sydney
Prof. Yin Xiao, Queensland University of Technology

Engineers

Prof. Marcela Bilek, University of Sydney
Dr. Jelena Rnjak-Kovacina, University of New South Wales
Translational Pathway

Applied Materials Research Group (APMG)

1. MATERIALS INNOVATION
2. SCREENING & DEVELOPMENT
3. PRE-CLINICAL EVALUATION

UNMET CLINICAL NEED

PATENT FILINGS

INDUSTRY PARTNERSHIPS

COMMERCIALISATION GRANT SCHEMES
Gaps in Support and Collaboration

Applied Materials Research Group (APMG)
School of Medical Sciences, Department of Physiology, University of Sydney

1. MATERIALS INNOVATION
   - Novel materials platforms
     - Hydrogels
     - 3D printing
     - Melt Electrospinning

2. SCREENING & DEVELOPMENT
   - High Throughput Assays
     - Novel Targets
     - Microfluidics
     - Precision Medicine

3. PRE-CLINICAL EVALUATION
   - Large Animal Models
     - Injury
     - Disease
     - Drug Efficacy